

Fig. 1

AMPLITUDE SENSOR - MODULATES COMBUSTOR EFFORT

Control

PLM DRIVES PISTON DRIVES BEAM

VALVE

LONG TUBE

PISTON

IGNITER

WIRE COIL/MASS

DRIVEN CANTILEVER BEAM

MAGNETIC FIELD, OUT OF PLANE

MAGNETIC FIELD VARIATIONS INDUCE CURRENT IN COIL

ELECTRONICS

POWER OUT

Fig. 1

Fig. 2

10

68

OXIDIZER

76

VALVE

70

CONTROL

76

VALVE

64

FUEL

46

BOUNDARY LAYER

54

MIXING CORE

50

LONG TUBE

72

IGNITER

58

PULSATILE COMBUSTED GASES OUT

COMBUSTION FRONT TO LEFT

FILL FRONT TO RIGHT

Fig. 3

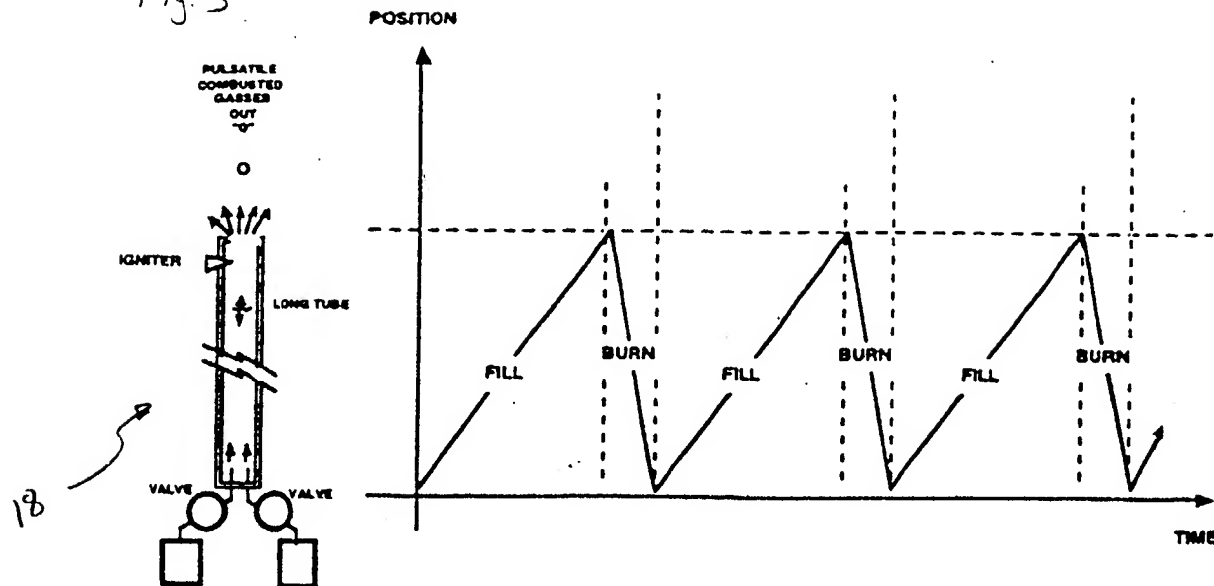


Fig. 4

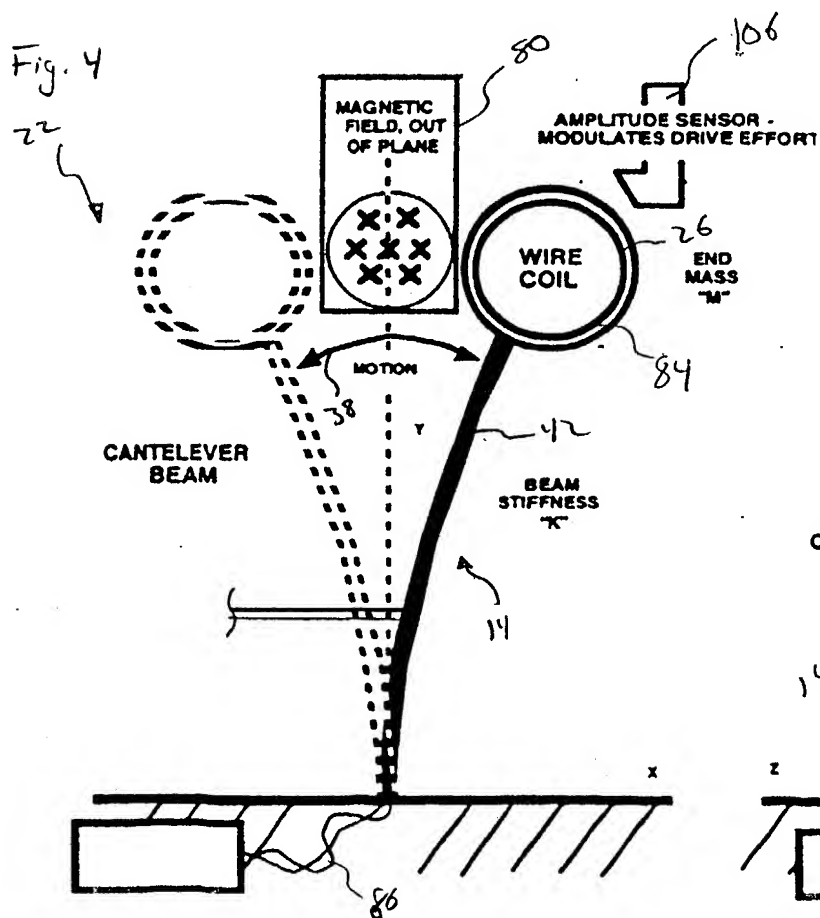
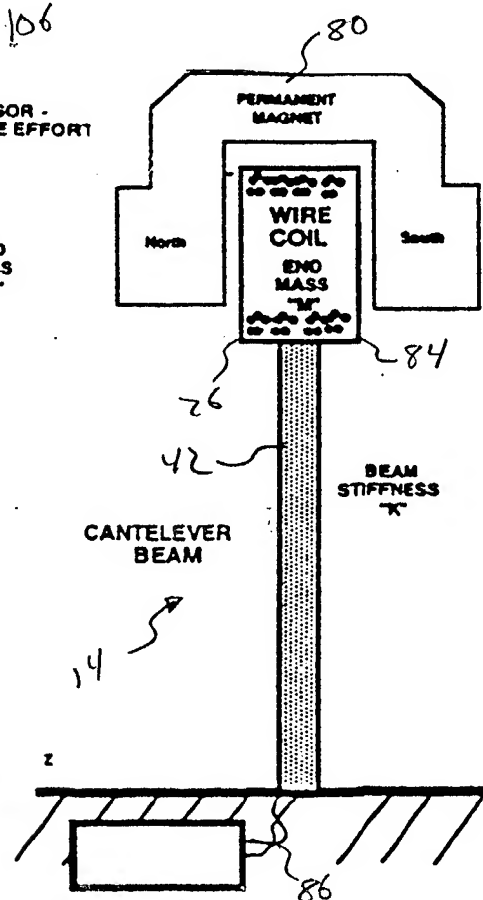


Fig. 5



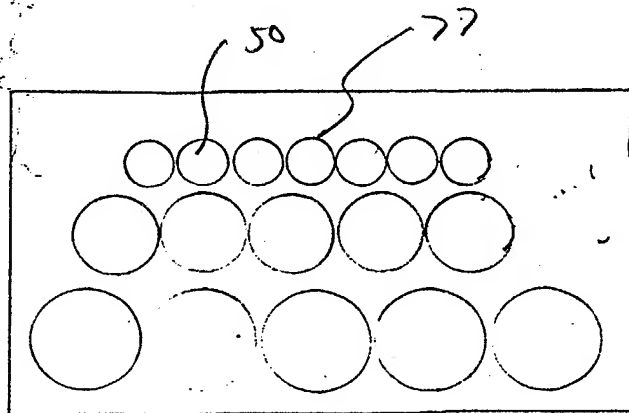


FIG. 6

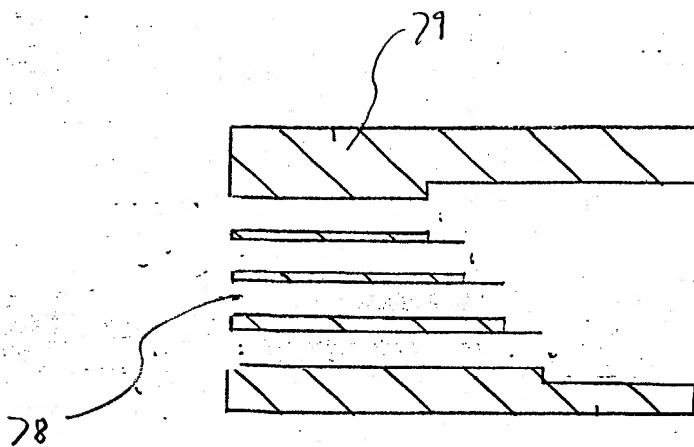


FIG. 7

2003220-049800T